

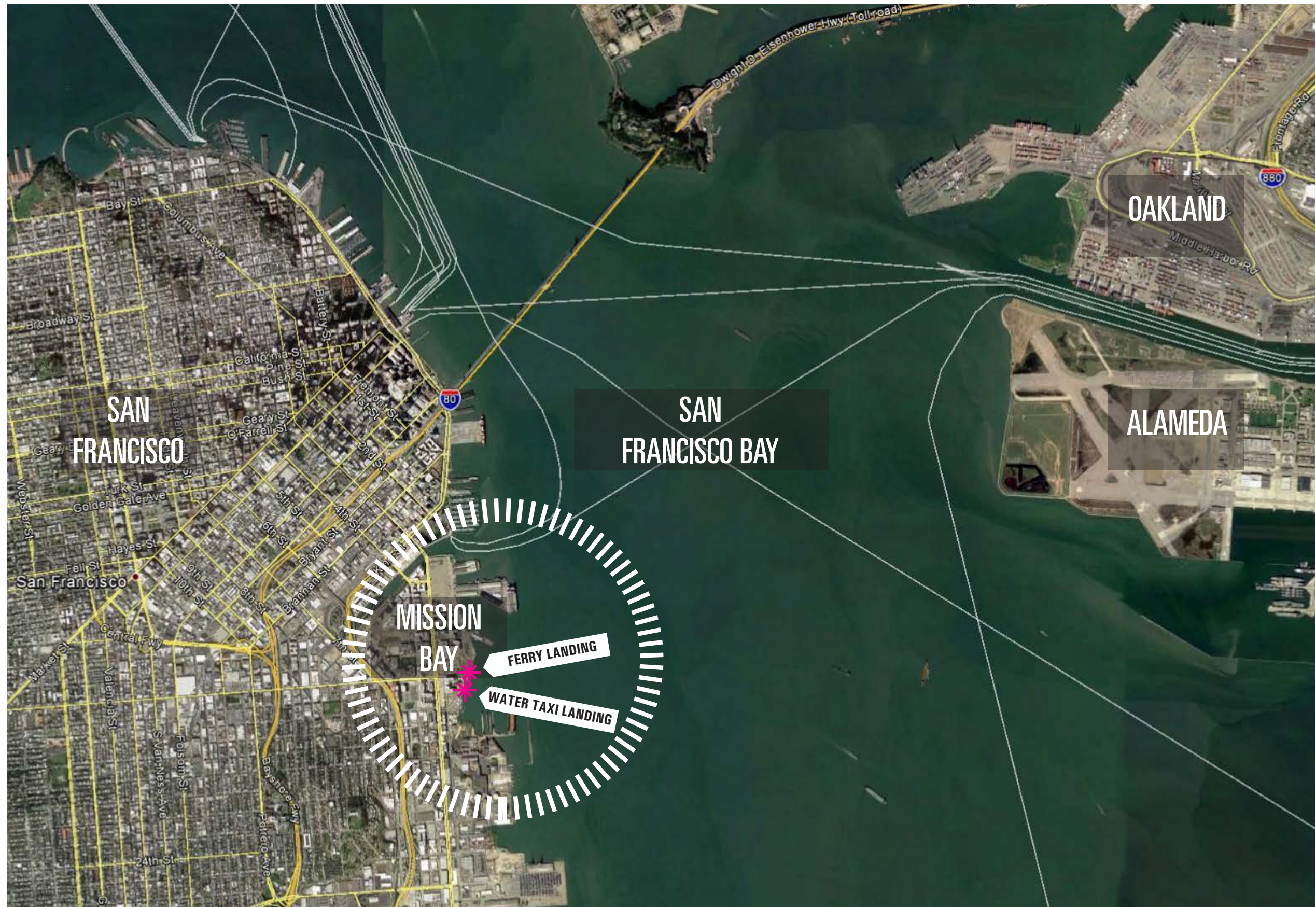


MISSION BAY FERRY & WATER TAXI LANDING

MISSION BAY FERRY AND WATER TAXI LANDING
DESIGN REVIEW BOARD MEETING
DATE: DECEMBER 11th, 2017

PREPARED FOR:
PORT OF SAN FRANCISCO

PREPARED BY:
COWI
ROBIN CHIANG & CO.
SURFACE DESIGN INC.









Existing Asphalt Path to be Repaired/Replaced as Needed



Existing Fishing Pier to Remain



Existing Stormwater Pump Station No. 5 Outfall to Remain



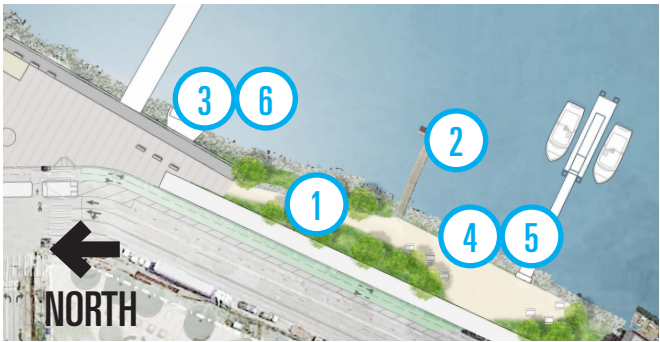
Rip-Rap Shoreline to Remain

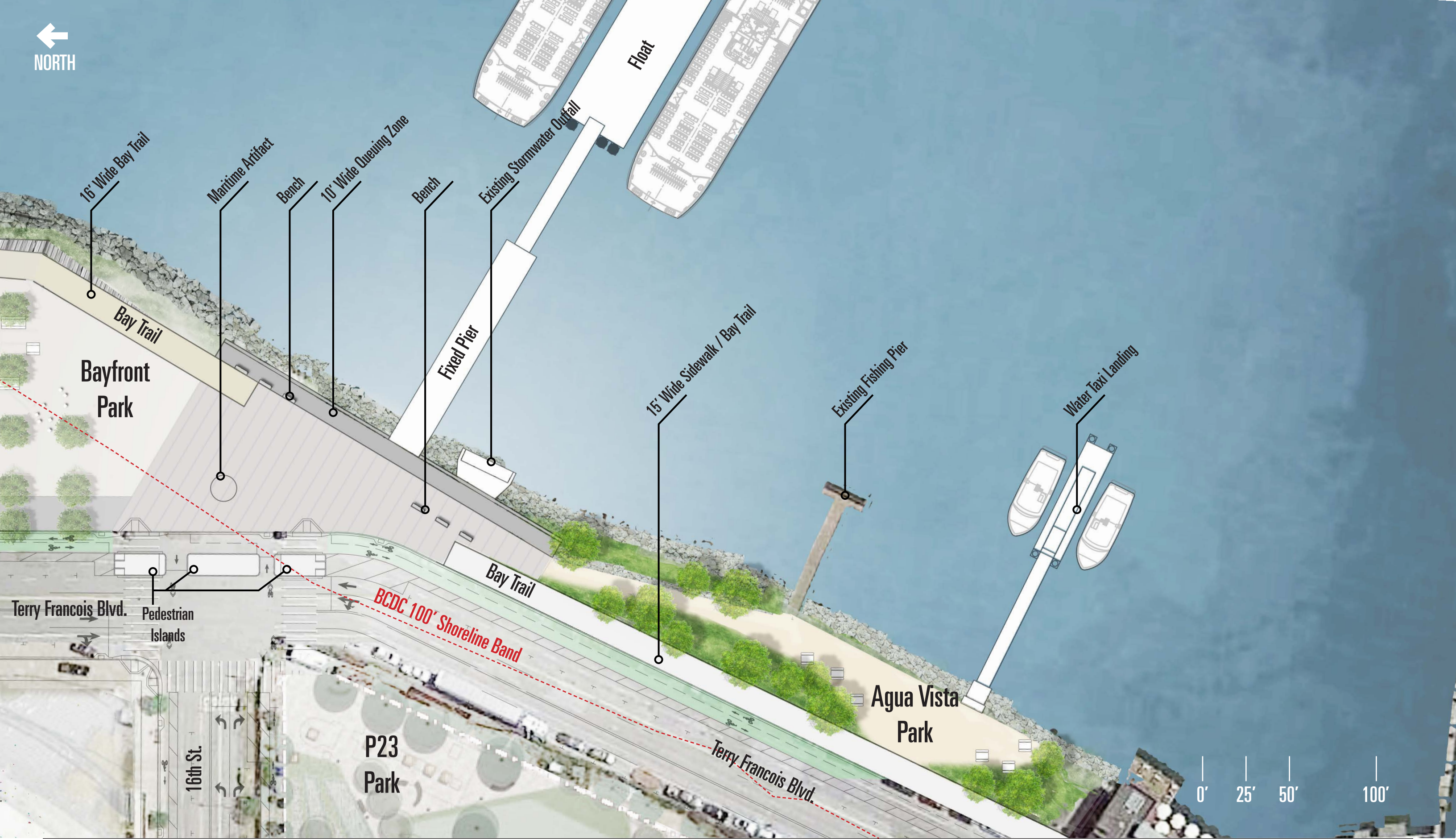


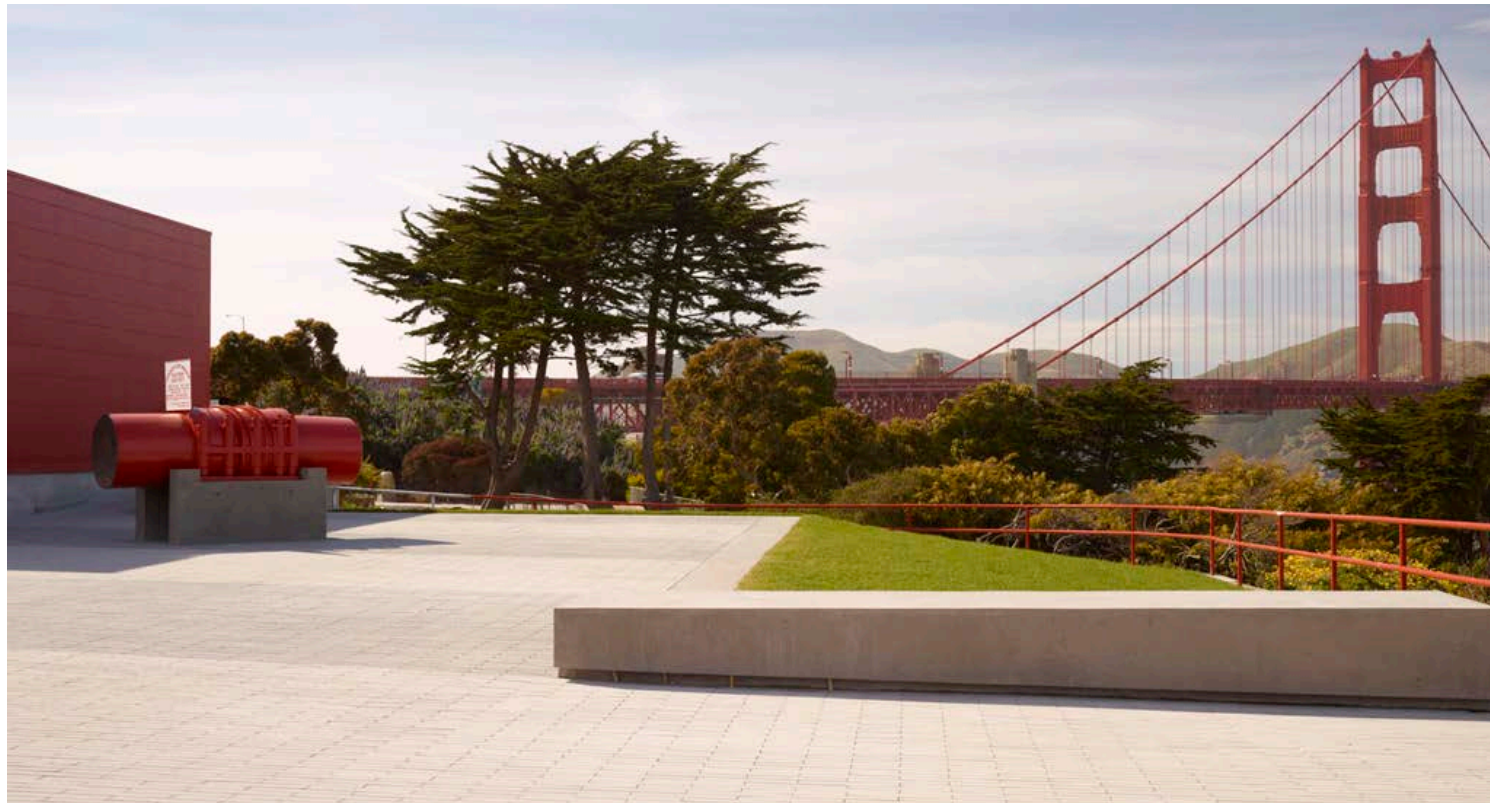
View from Rip-Rap Shoreline



View from Existing Stormwater Pump Station No. 5 Outfall







Concrete Bench, Golden Gate Bridge Plaza



Unit Pavers, Golden Gate Bridge Plaza



Steel Grating (ADA Accessible), The High Line



BENCHES

1



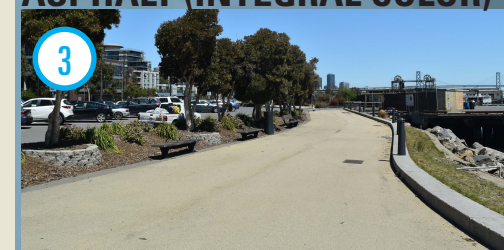
GRATING (ADA ACCESSIBLE)

2



ASPHALT (INTEGRAL COLOR)

3



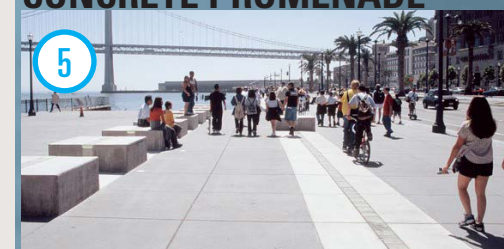
UNIT PAVERS

4



CONCRETE PROMENADE

5





NORTH

COMMUTER Circulation

- Up to 11 vessel trips in AM (6:45-9:45AM) and 12 vessel trips in PM (5:00-7:25PM)

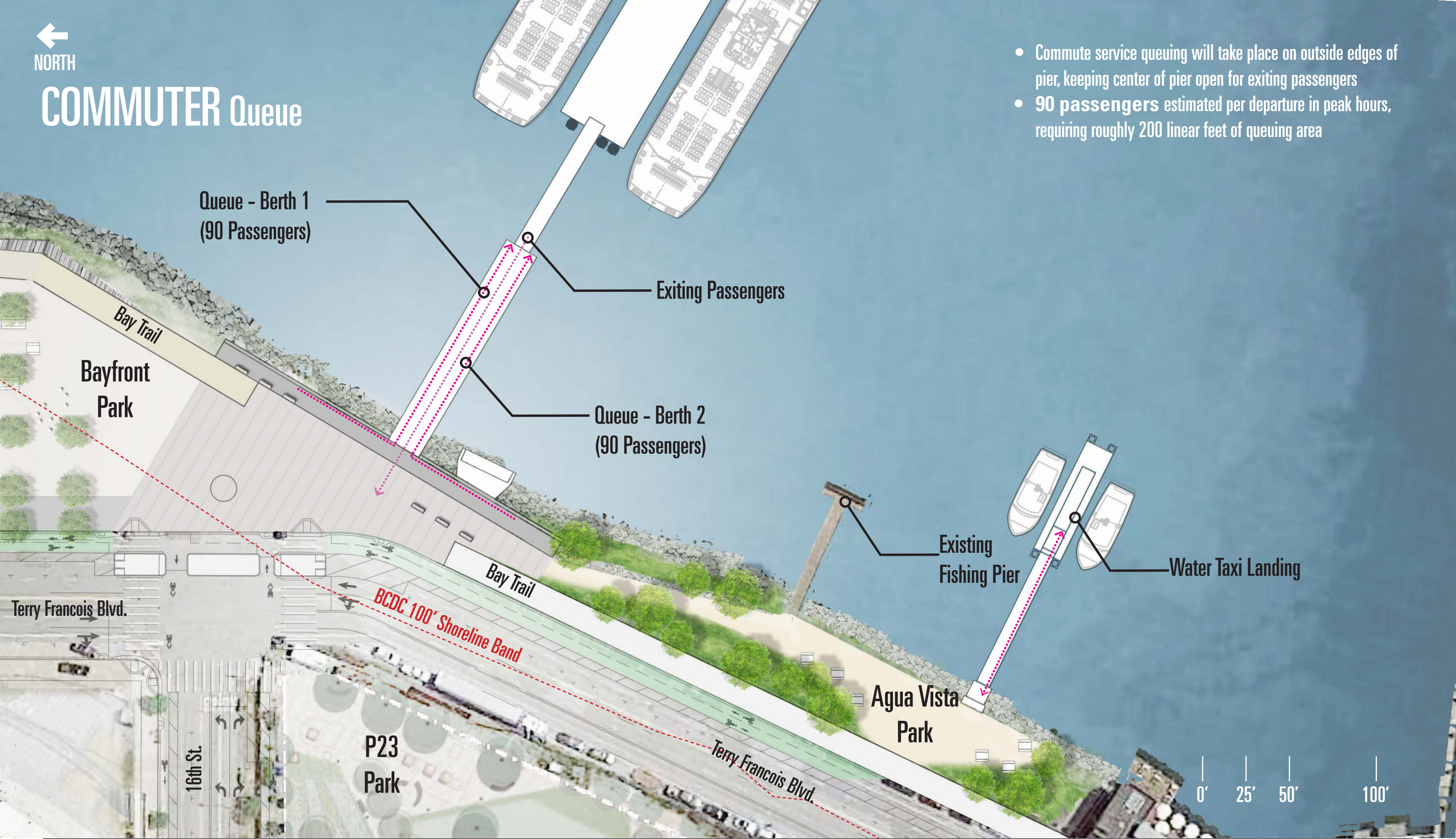




NORTH

COMMUTER Queue

- Commute service queuing will take place on outside edges of pier, keeping center of pier open for exiting passengers
- 90 passengers estimated per departure in peak hours, requiring roughly 200 linear feet of queuing area





NORTH

PRE-EVENT Circulation

- Pre-game arrival will be integrated into normal commute service
- Estimated arrival of 6:55-7:15 PM



SURFACEDSIGN INC.
COWI

SITE CIRCULATION DIAGRAM

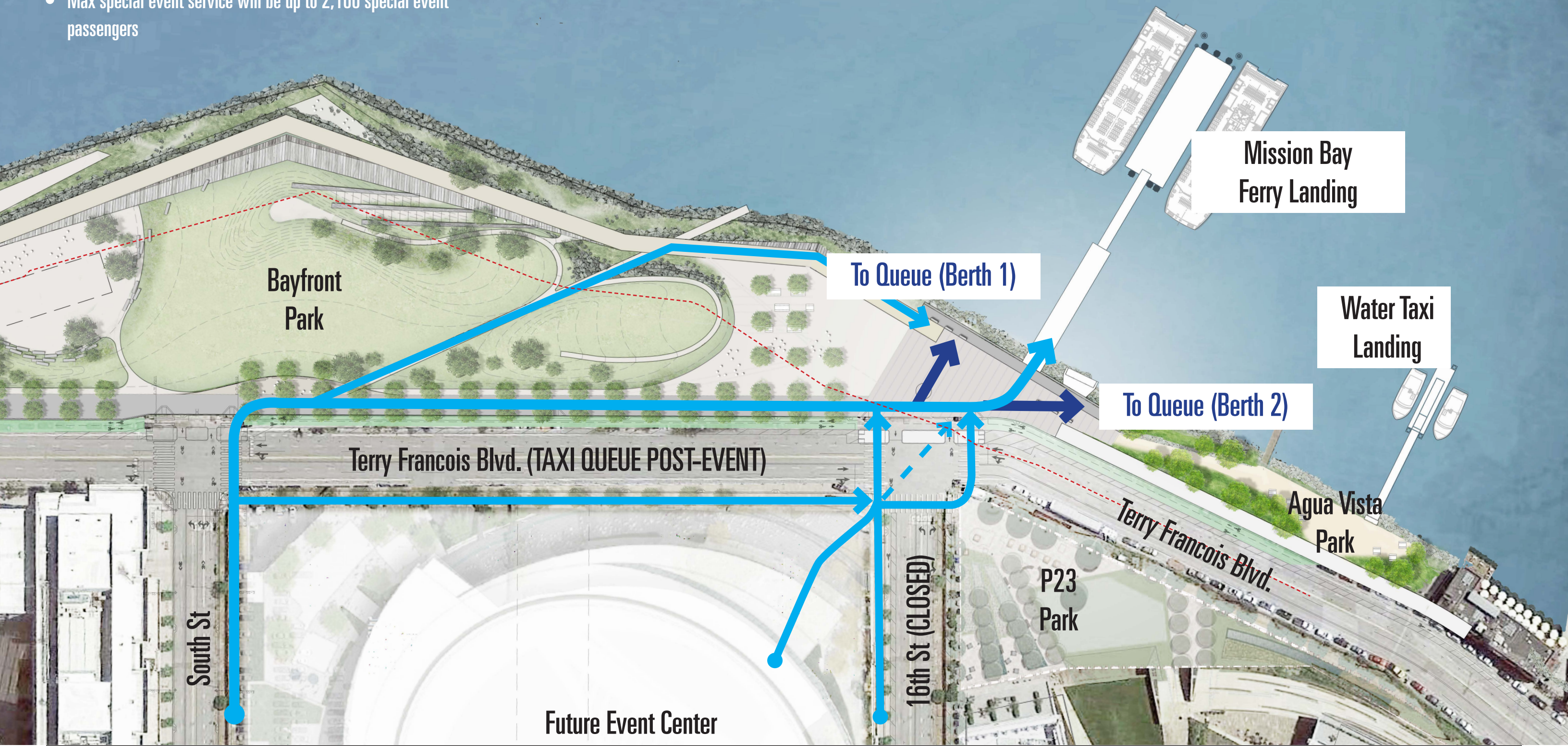
MISSION BAY FERRY AND WATER TAXI LANDING
 DESIGN REVIEW BOARD MEETING
 DATE: DECEMBER 11th, 2017



NORTH

POST-EVENT Circulation

- Max special event service will be up to 2,100 special event passengers



SURFACEDSIGN INC.

COWI

SITE CIRCULATION DIAGRAM

MISSION BAY FERRY AND WATER TAXI LANDING

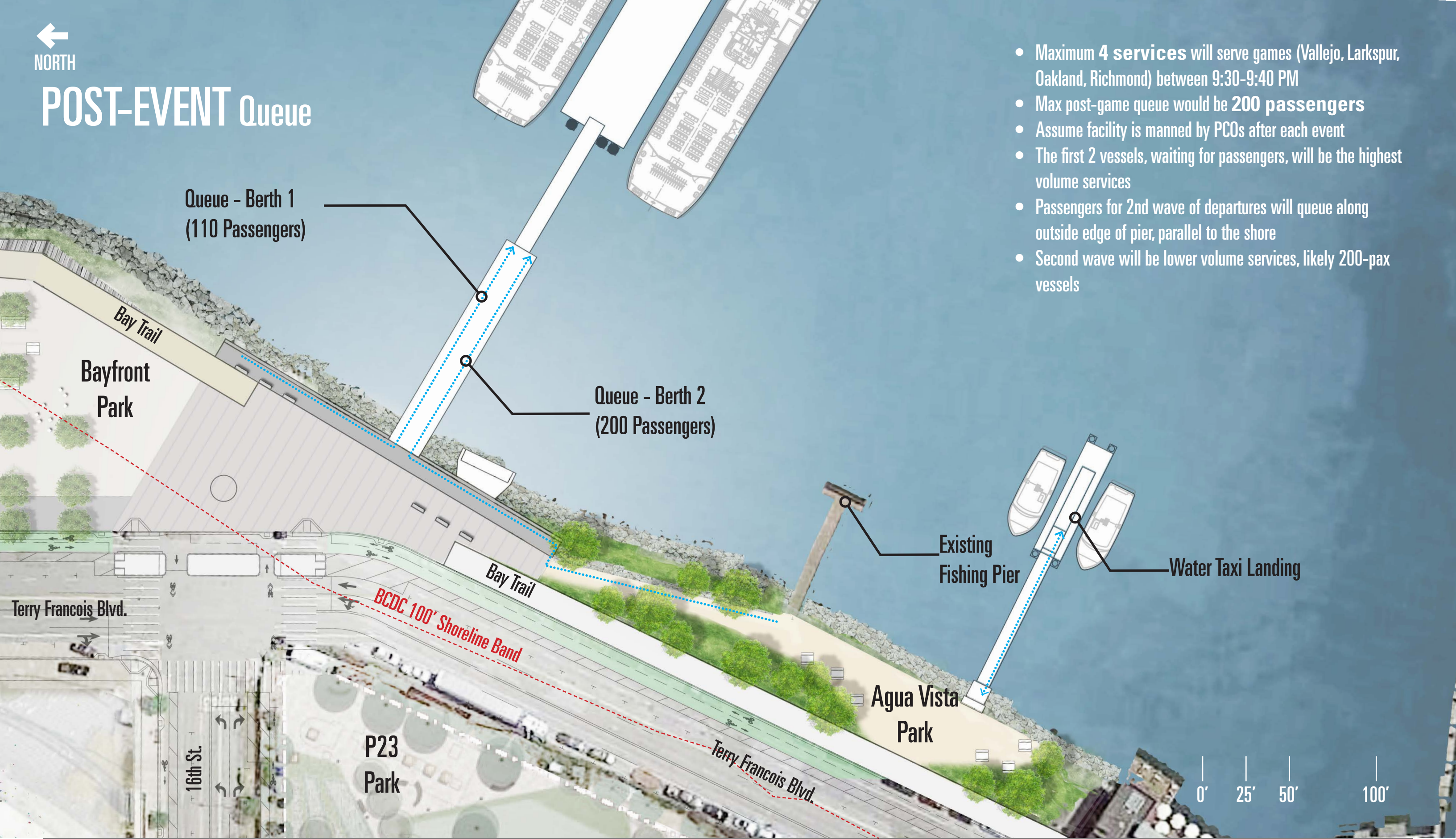
DESIGN REVIEW BOARD MEETING

DATE: DECEMBER 11th, 2017



NORTH

POST-EVENT Queue



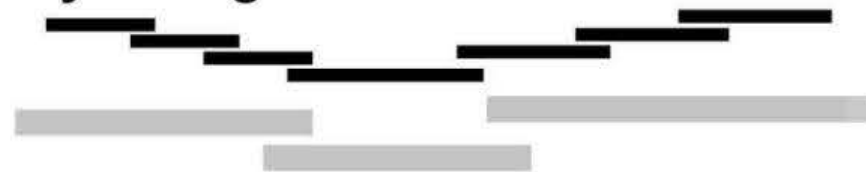
- Maximum **4 services** will serve games (Vallejo, Larkspur, Oakland, Richmond) between 9:30-9:40 PM
- Max post-game queue would be **200 passengers**
- Assume facility is manned by PCOs after each event
- The first 2 vessels, waiting for passengers, will be the highest volume services
- Passengers for 2nd wave of departures will queue along outside edge of pier, parallel to the shore
- Second wave will be lower volume services, likely 200-pax vessels

Welcoming



Canopy Opens to Pedestrians on the Landside, and Ferry Passengers on the Waterside

Layering



Roof Takes A Cue From the Arena With Layered Sections

Light



Translucent Roof Allows Light to Flood the Pier and Float, and Roof Material Conveys Minimal Weight



Layering:
Overlapped
roof planes

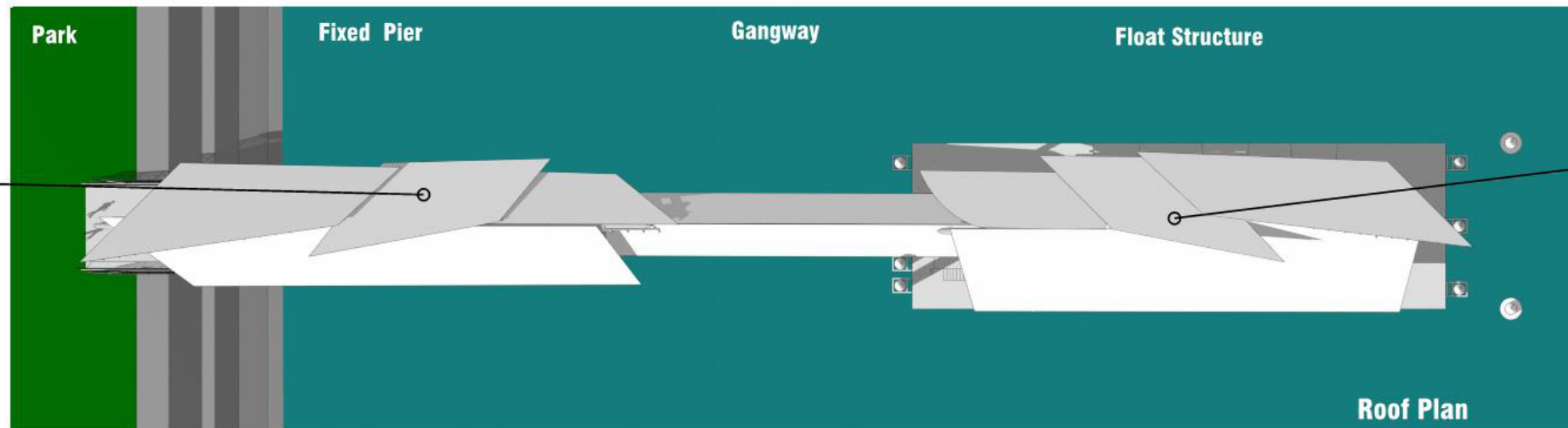
Light:
Translucent
roof panels

EL. +27'-0" Ridge
EL. +16'-9" Ridge
EL. +8'-0" Eave
EL. +0'-0" Top of Pier Deck
(EL. +13.75' MLLW)
Bottom of Ramp
(@ EL. 11.58' MLLW)

Welcoming:
Vaulted entry
portal from the
bay side

EL. +25'-0" Eave

Layering:
Overlapped
roof planes



Layering:
Overlapped
roof planes



EL. +34'-0" Ridge
EL. +15'-6" Eave
EL. +0'-0" Top of Float
(EL. +3'-0" Above MLLW)



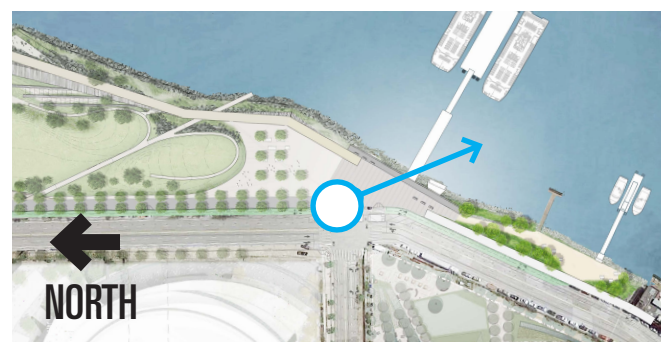
Welcoming:
Vaulted entry
portal from the
land side

EL. +13'-4" Eave

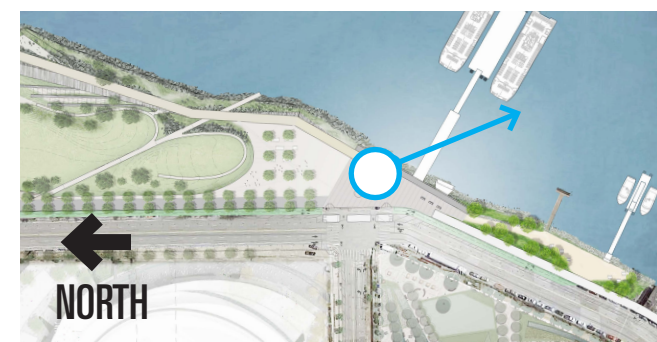
Layering:
Overlapped
roof planes



TERRY FRANCOIS BLVD, LOOKING SOUTHEAST



BAY TRAIL, LOOKING SOUTHEAST

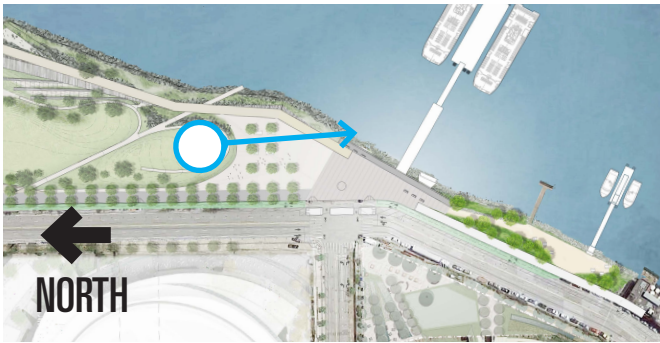




BAY TRAIL, LOOKING SOUTH

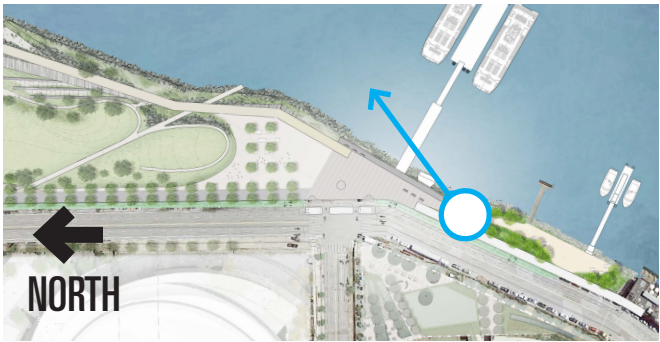


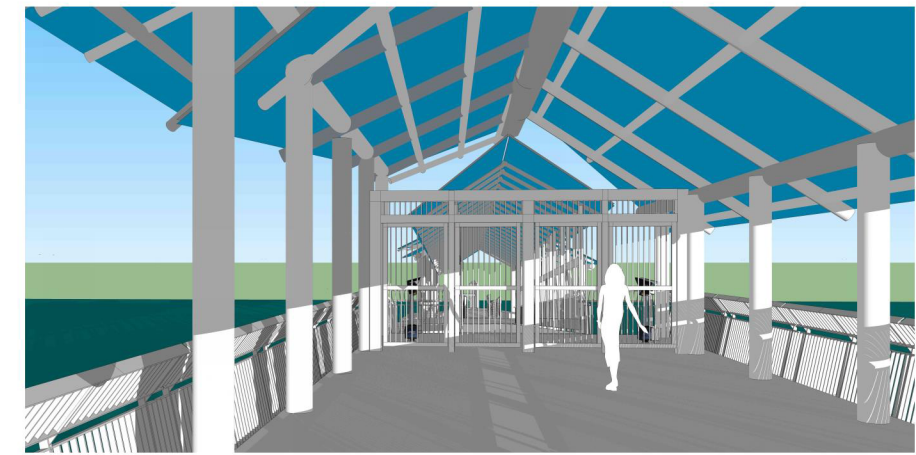
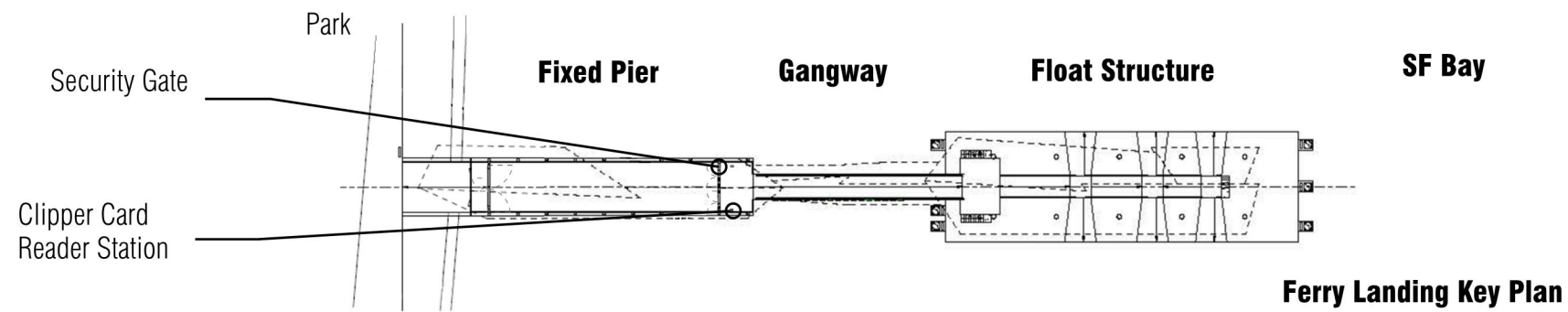
BAYFRONT GREEN, LOOKING SOUTH



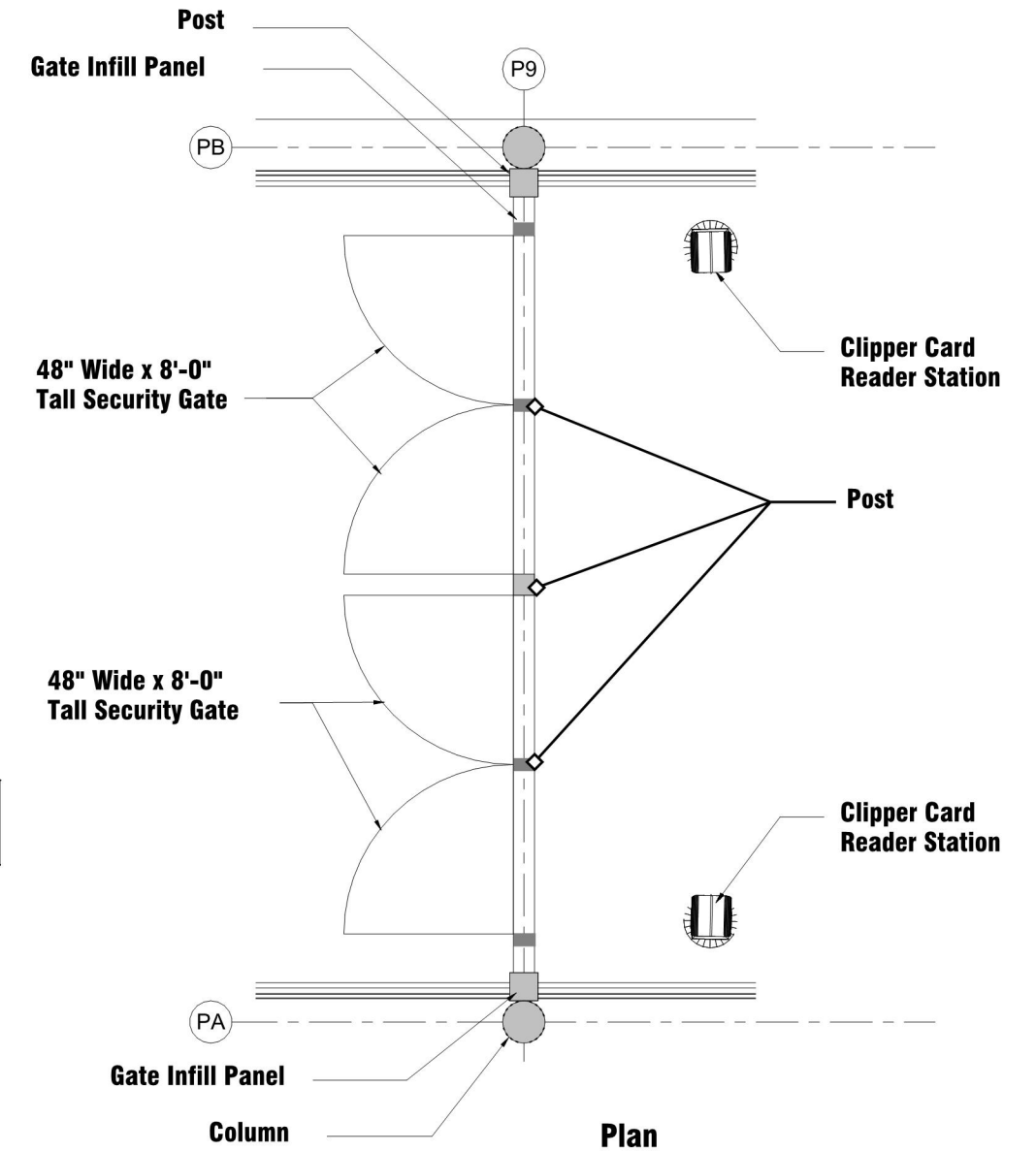
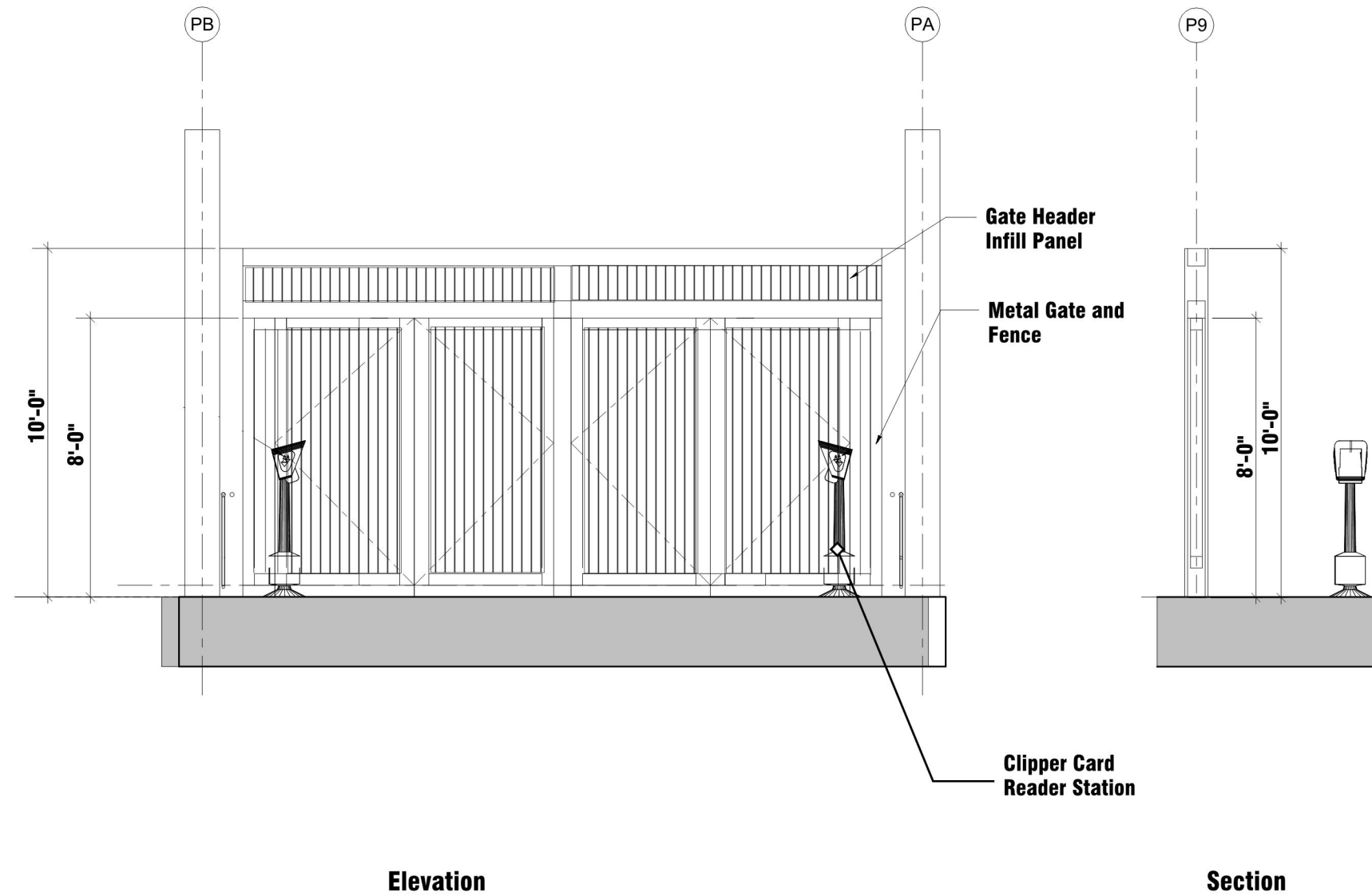


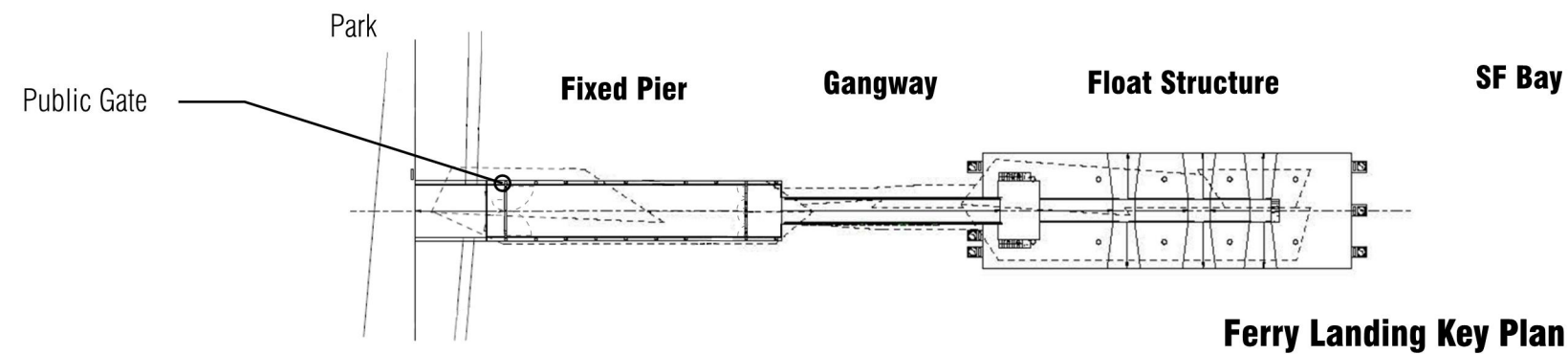
FERRY LANDING PLAZA, LOOKING NORTHEAST



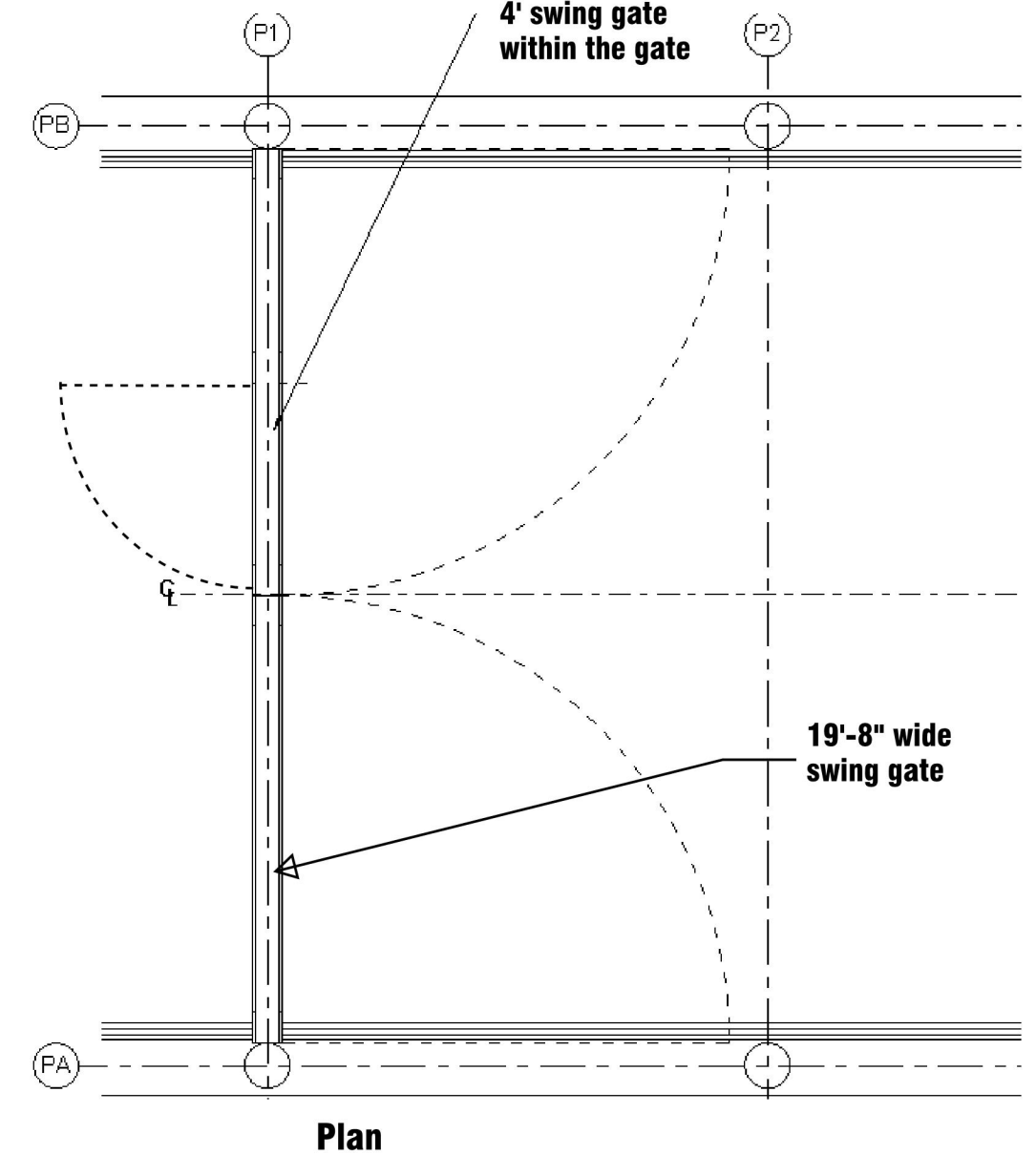
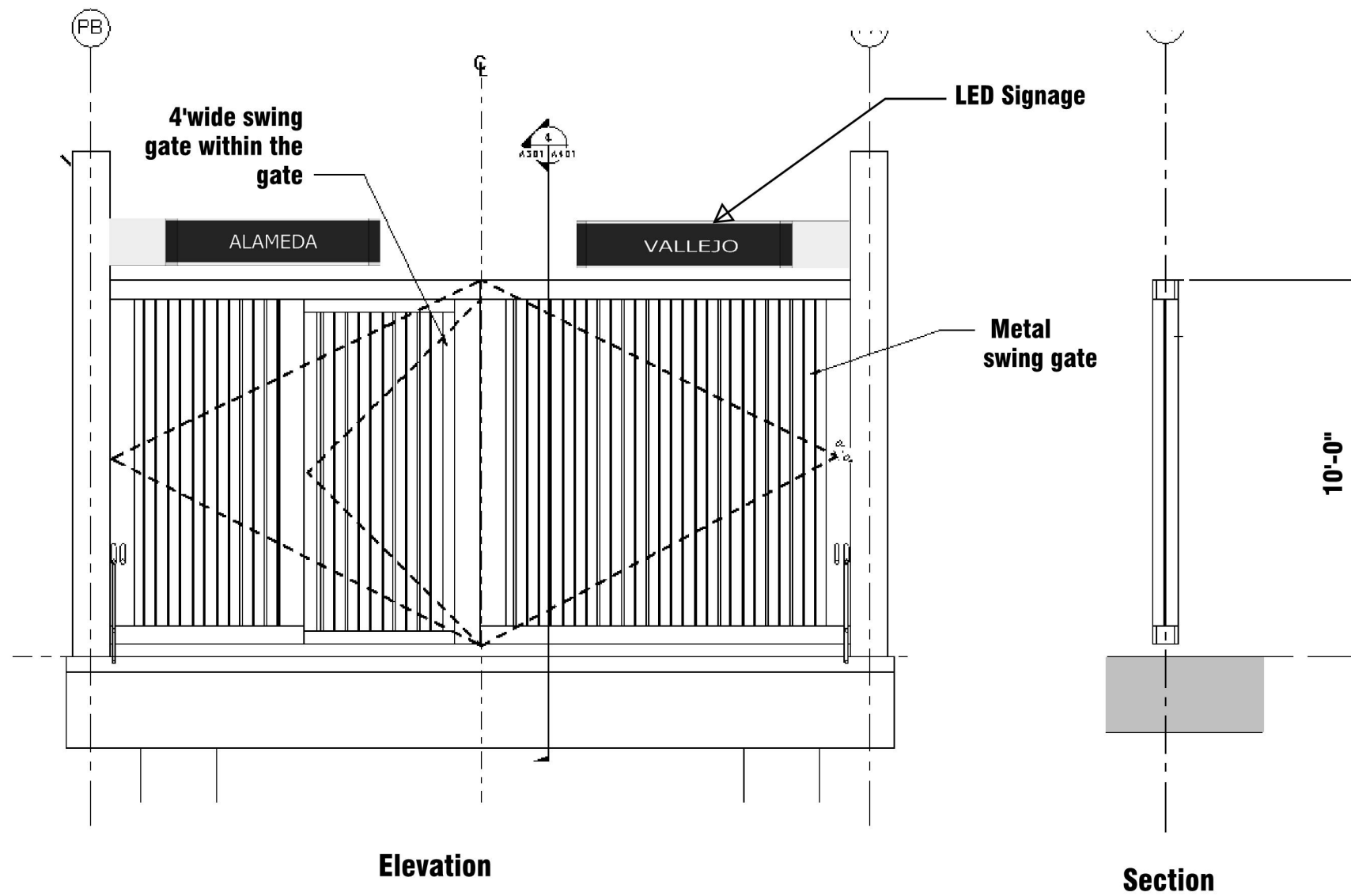


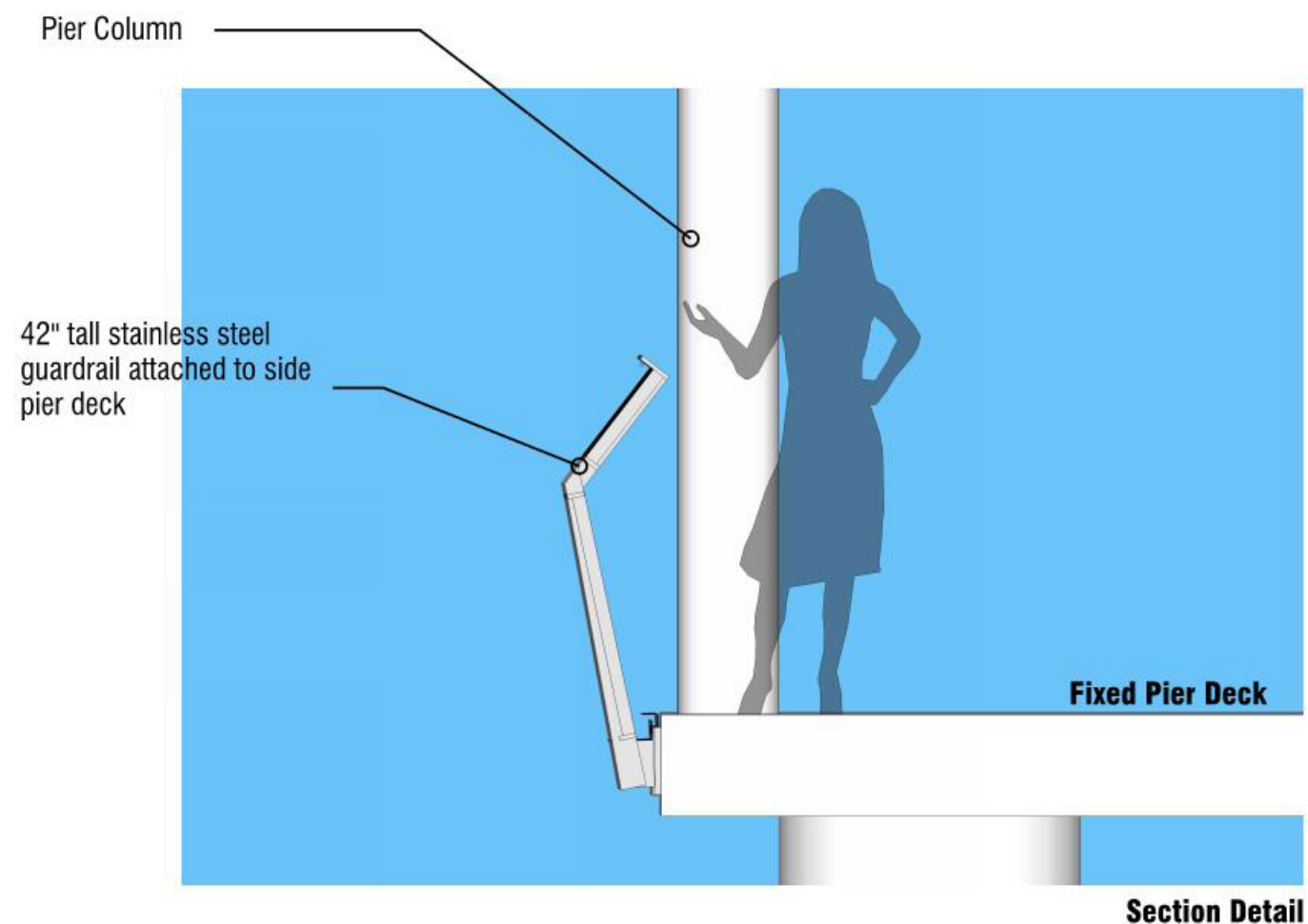
Perspective view of the Security Gate



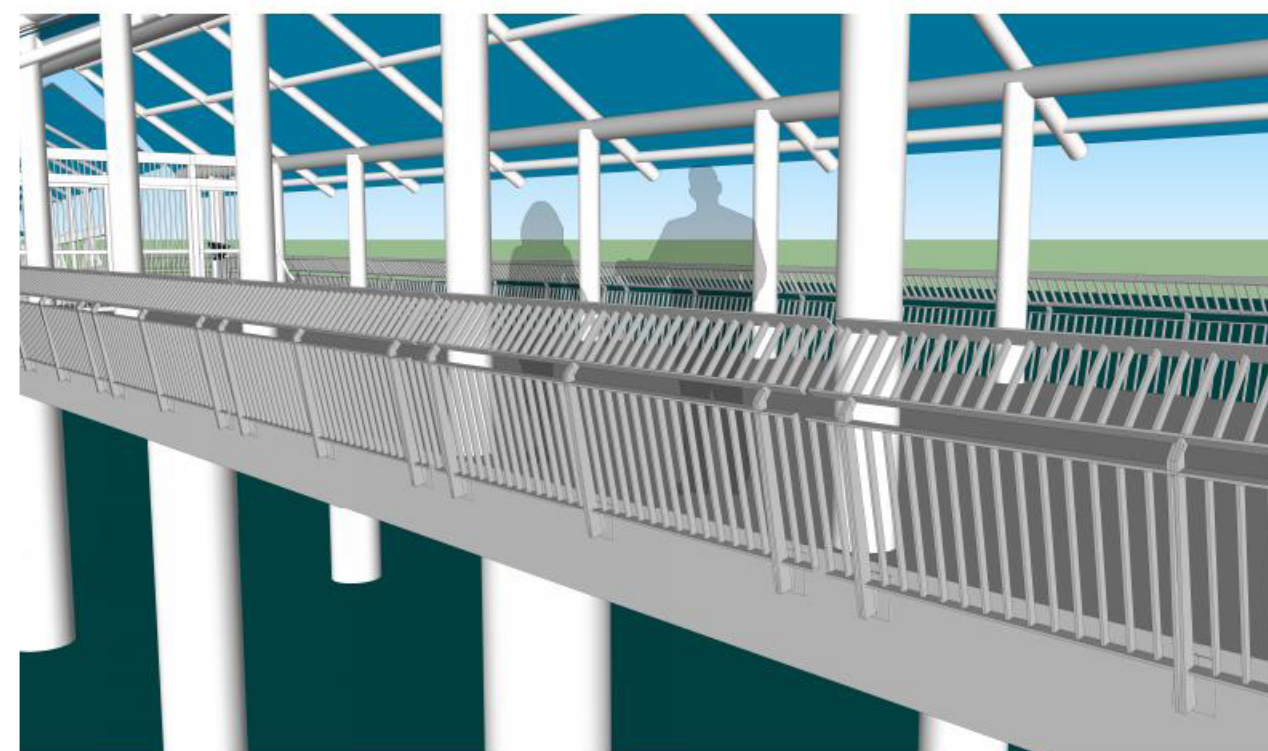
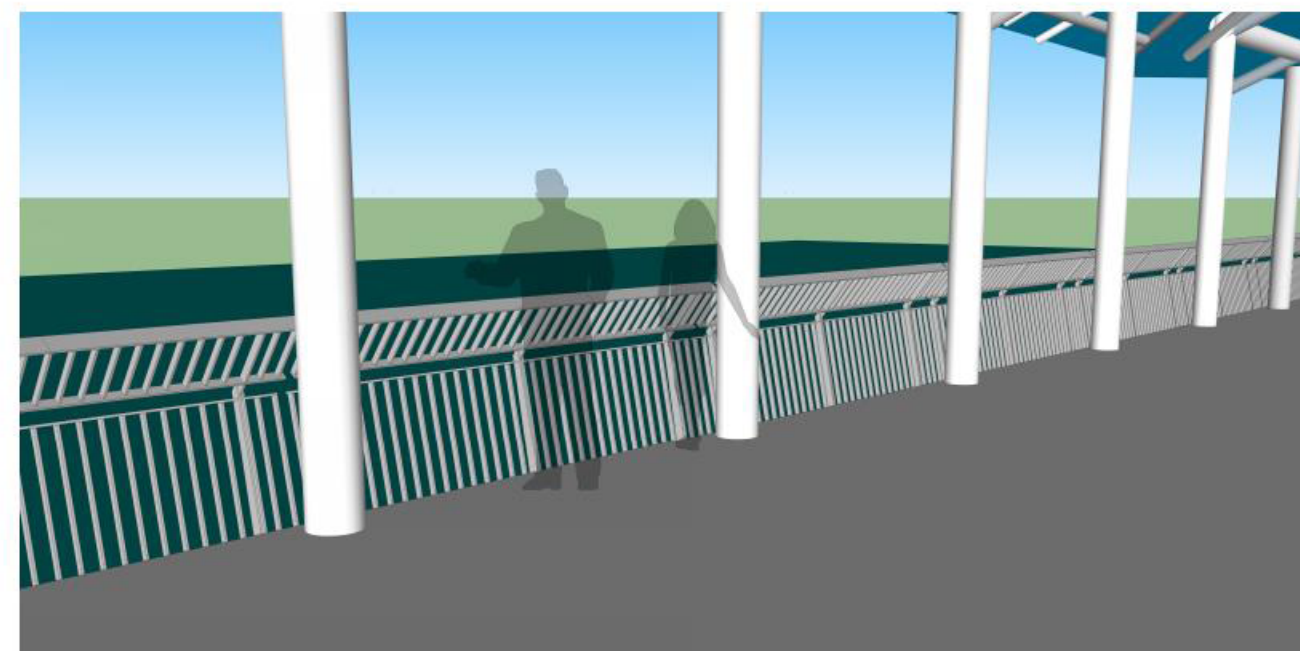


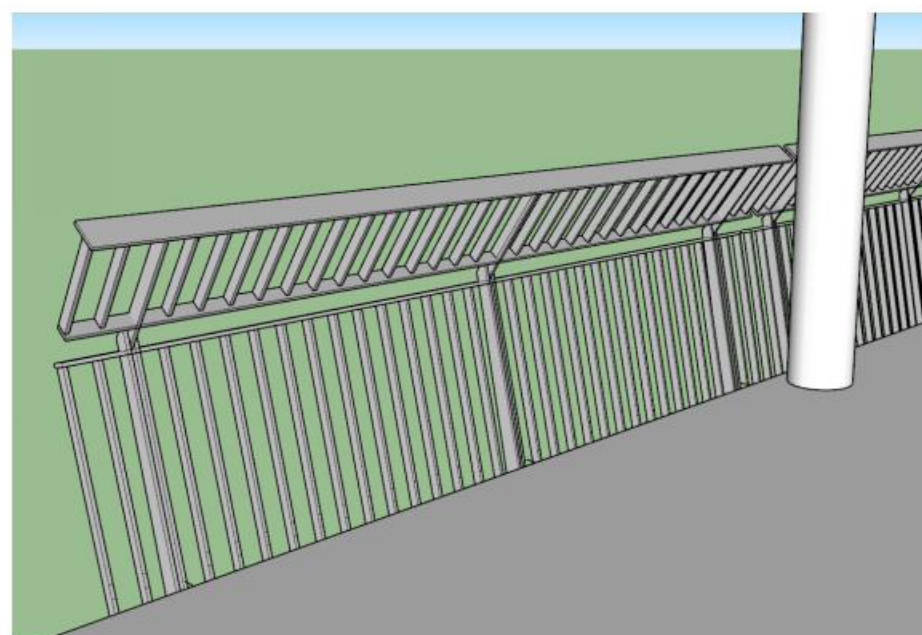
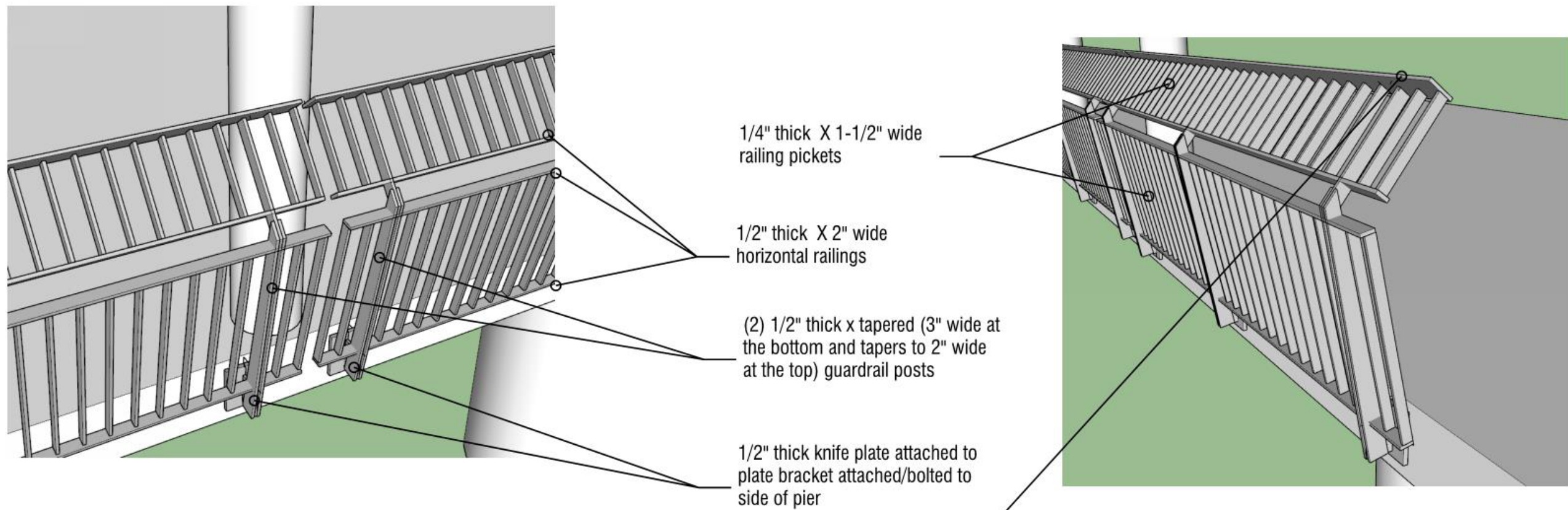
Perspective view of the Public Gate





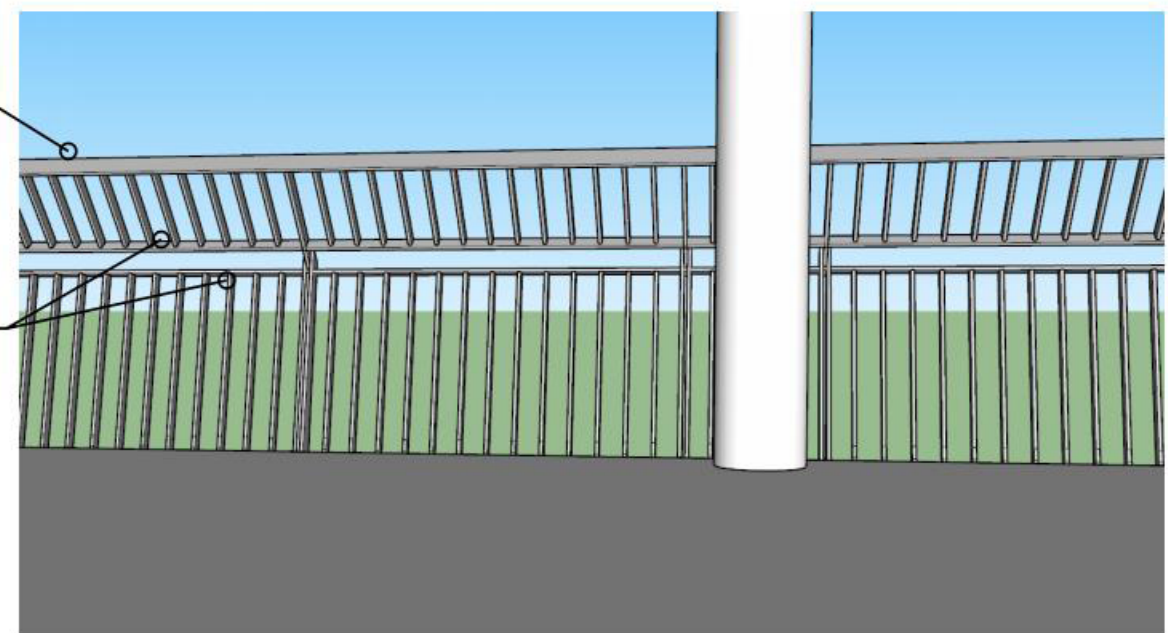
Stainless Steel Guardrail Assembly:
 Horizontal top rail: 1/2" thick X 4" wide steel bar
 Main posts: (two) 1/2" X 2" wide steel bar on either side of 1/2" X 8" knife plate attached to the side of the concrete pier deck.
 Horizontal mid and bottom rails 1/2" thick X 2" wide steel bars
 Vertical pickets: 1/4" thick X 1-1/2" wide steel bars





1/2" thick X 4" wide continuous top rail

1/2" thick X 2" wide horizontal railing



Note: All welded stainless steel guardrail assembly unless otherwise noted.

Fixed pier guardrail detail views

LIGHTWALL 3100LS®

LONG-SPANNING WALL SYSTEM

THYSSENKRUPP STEEL | CALVERT, AL

German steel giant ThyssenKrupp approached EXTECH during the value engineering phase for their new U.S. based mill. The original building design specified channel glass - an expensive high-end glass material - and it far exceeded their exterior glazing budget.

Our LIGHTWALL 3100LS delivered the sleek style and daylighting capabilities of the original design, for less cost. The LIGHTWALL 3100LS is a long spanning structural standing seam wall system that requires minimal structural support, and mimics the look of channel glass.

ThyssenKrupp saved 66% on their exterior glazing budget by using the LIGHTWALL 3100LS. The completed project represents one of the largest cellular polycarbonate glazing installations in North America, utilizing over 310,000 square feet of glazing and nearly 40 linear miles of the aluminum mullion extrusions.

EXTECH / Exterior Technologies, Inc. | 800 500 8083 | info@extechinc.com | www.extechinc.com

Water Stop

Clamping Mullion

Can be installed from the exterior or interior side of the building.

Designed for long spans and high load applications. Spans up to 39' high without leak-prone intermediate horizontals.

CAD and Specification documentation available on our website.
System sample available upon request.

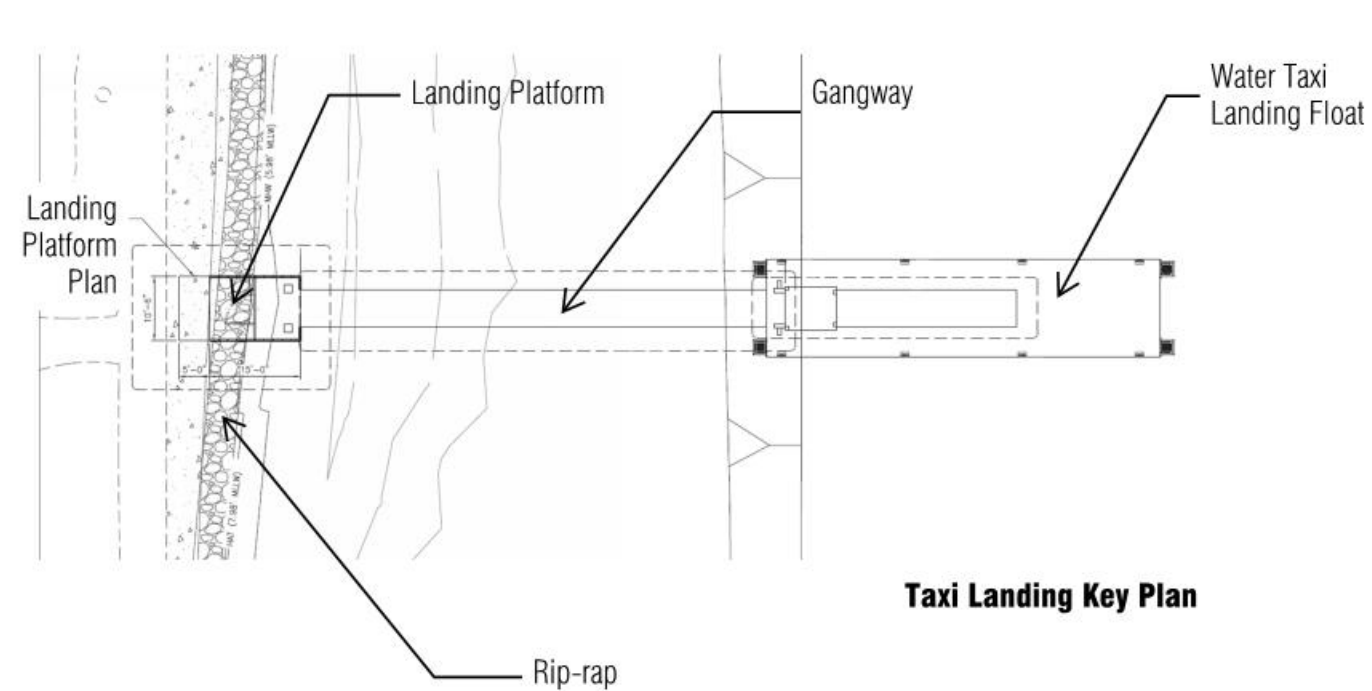
EXTECH
EXTERIOR TECHNOLOGIES, INC.

Series 3100-LS System
Long Span Structural Standing Seam

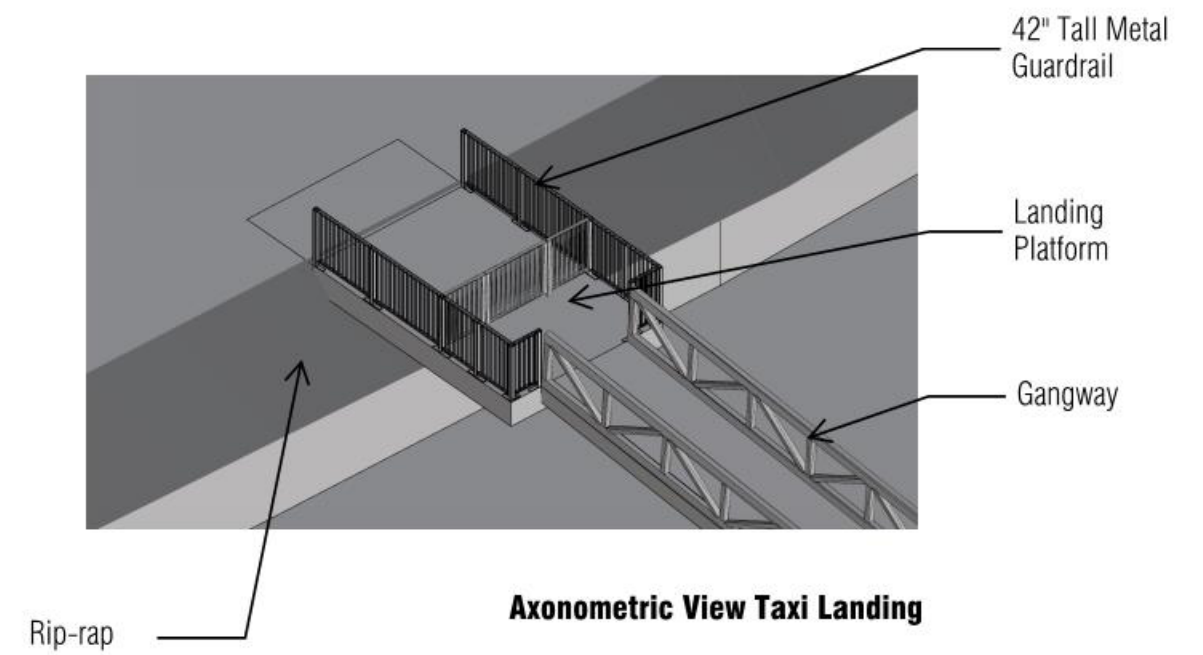
EXTECH Series 3100-LS is a unique, patent pending, hinged, 2-piece aluminum clamping mullion system. This system features an internal gasketed water stop for long term performance. Glazed with lightweight, recyclable, high impact cellular polycarbonate structural sheets, this system was designed for a long span high load application.



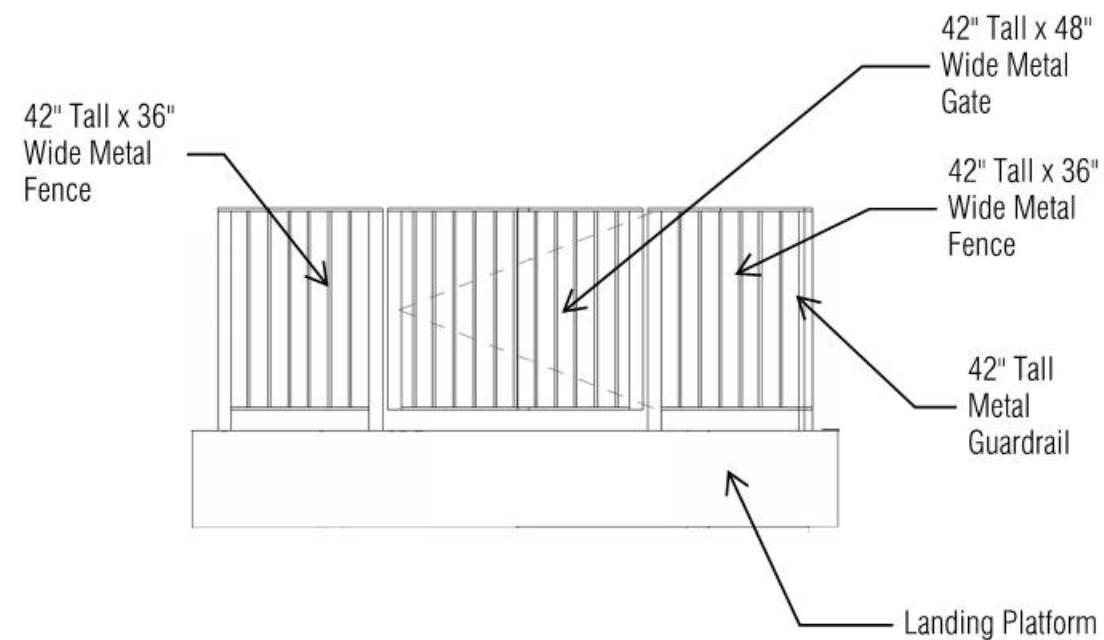
Mission Bay Ferry Landing Canopies:
Extech Lightwall 3100LS-2'-0" wide x 25' length x .787" (20 mm);
Exterior side is Light Grey and underside Light Blue colors at 70% translucency
attached to aluminum mullion framing assembly.



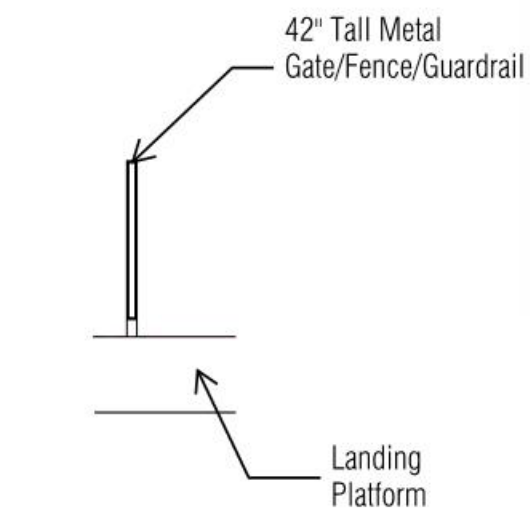
Taxi Landing Key Plan



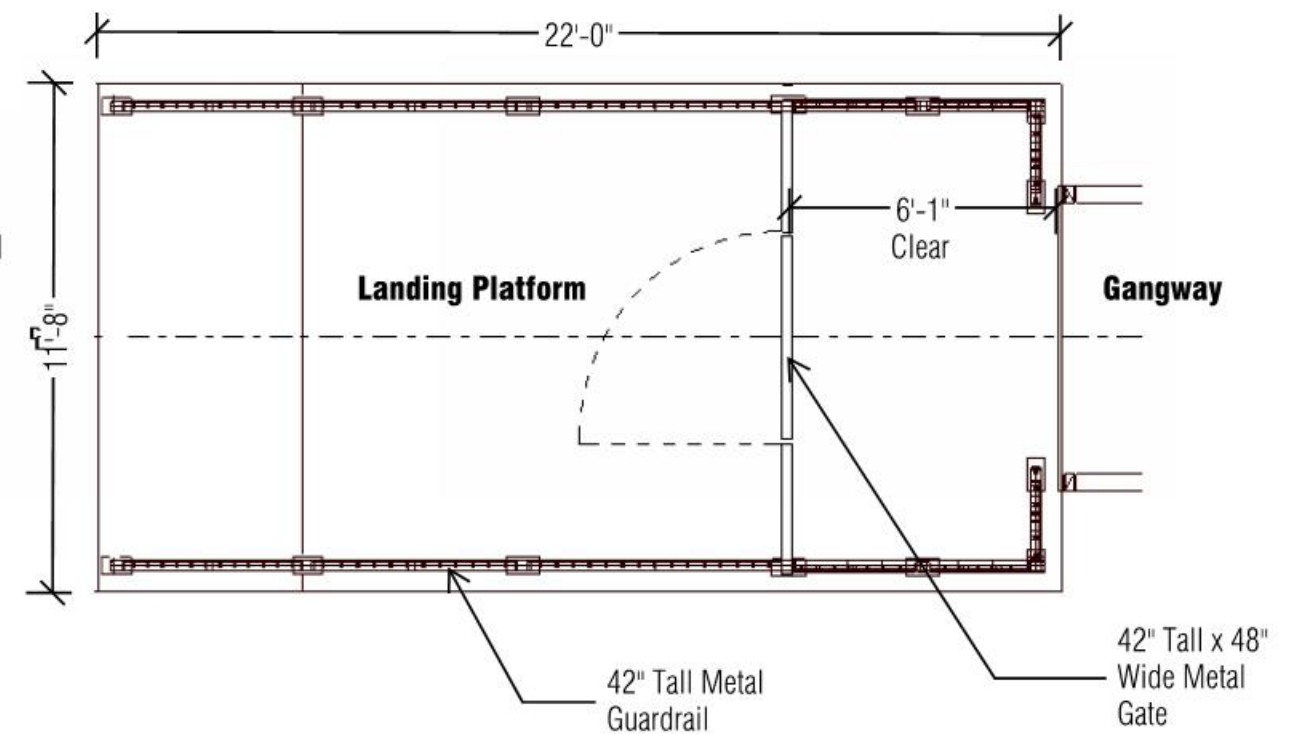
Axonometric View Taxi Landing



Platform Elevation



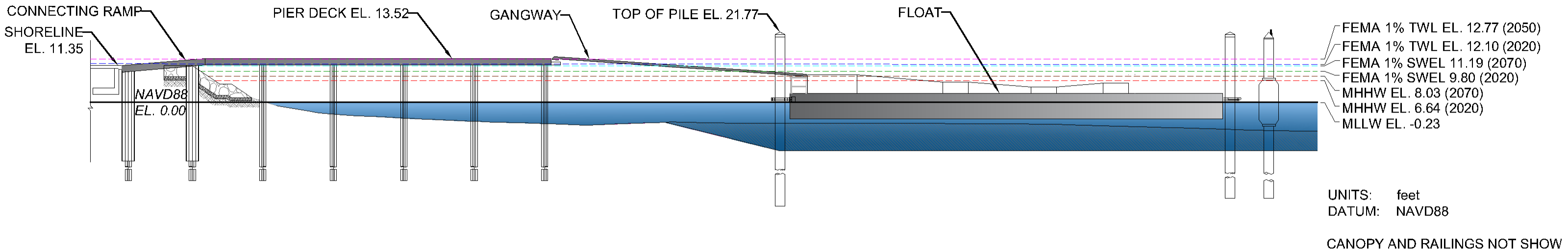
Platform Section



Taxi Landing Platform Plan

Taxi Landing Platform Gate and Railings

FERRY LANDING



WATER TAXI LANDING

